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(54) MAGNETIC CORE

(57)Abstract:

PURPOSE: To enable noise of a magnetic core to be reduced drastically by allowing imaginary constituents of a coefficient of elasticity of a coating material at room temperature to be specific values.

CONSTITUTION: A magnetic core 1 is formed in annular shape by winding an amorphous metal ribbon and slits are formed at one part in the direction of diameter. Then, an epoxy resin is coated on this magnetic core 1 as a coating material 2. A coating material where an imaginary constituent of a coefficient of elasticity at room temperature exceeds $1 \times 10^8 (\text{N/m}^2)$ is used as this coating material. Therefore, by applying a flexible epoxy resin with a large imaginary part of coefficient of elasticity on a material constituting the magnet, for example, an amorphous metal with a surface hardness of approximately Hv1000 normally, vibration from the magnetic core can be attenuated and noise can be reduced.

